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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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5775 MOREHO	OUSE DR.	DAO, MINH D		
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			2618	
			NOTIFICATION DATE	DELIVERY MODE
			07/25/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	09/847,474	SHI ET AL.			
Office Action Summary	Examiner	Art Unit			
	MINH D. DAO	2618			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tire will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 18 A This action is FINAL . 2b) ☑ Thi Since this application is in condition for allowate closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro				
Disposition of Claims					
 4) Claim(s) 1,3-7,9-13,15-19,21-37 and 39-49 is. 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1,3-7,9-13,15-19,21-37 and 39-49 is. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o 	awn from consideration. /are rejected.				
Application Papers					
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposed as a composition and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct to by the E	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Response to Arguments

Applicant's arguments filed 10/31/07 and 04/18/08 have been fully considered but they are not persuasive. Regarding remarks(10/31/07) that cited references do not teach "the voice-recognition engine is configured to interpret **single word Or multiple word** audiodata as matching a selected one of a set of alphanumeric characters.". Examiner notes that, as indicated in bold-face above, in all independent claims 1,7,13,19,26,29,32,34,40, and 47 use alternating language between two elements "**single word**" or "**multiple word**". Examiner only needs to consider one of the two elements to treat these claims. In this case, the cited reference Kato teach a "**single word**" as indicated in fig. 5, and col. 4, line 55 to col. 6, line 64. And therefore independent claims 1,7,13,19,26,29,32,34,40, and 47 are rejected for this reason. In addition, the limitation "the multiple word audio-data is in the form of "Capital X," wherein "X" represents one of the group of alphabetical letters from A to Z" is not considered as part of claims 26,29,32,34,40, and 47. Claims 26,29,32,34,40, and 47 (without this limitation) are now part of claim 1. Therefore, claims 26,29,32,34,40, and 47 are rejected for the same reason set forth in the rejection of claim 1 as indicated below.

1. Applicant's arguments filed 10/31/07, with respect to argument that cited references do not teach "a single alphanumeric character". This argument is moot in a new ground(s) of rejection is made in view of Mann (US 6,687,673).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-7,9-13,15-19,21-24,26,29,32,34-37,40,43-45,47,48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kato (US 6,263,202) in view of Levine (US 6,972,082) and further in view of Mann (US 6,687,673) and Howell et al. (US 6,215,992).

Regarding claim 1, Kato teaches a system for data entry in a wireless communication device (See figure 5), the system comprising: an audio-input device to receive audiodata (Figure 5, item 40); a voice-recognition engine (figure 5, item 50) to receive and analyze the audio-data, wherein the voice-recognition engine is configured to interpret single word audio-data to use in conjunction with the operation of the wireless communication device (col. 4, lines 55-67; col. 5, lines 1-4; figure 2, items 12 and 14); and a memory to store the selected alphanumeric character for subsequent use in conjunction with the operation of the wireless communication device (figure 5, item 54, 50 and 42). However, Kato fails to teach interpreting the audio-data as matching a selected one of a set of commands, the set of commands comprising at least one command for configuring the voice-recognition engine in interpreting the audio-data; and a processor to execute the command. Levine, in an analogous art, teaches personal assistant system equipped with voice recognition engine to interpret audio input such as audio commands and execute the commands (see col. 4, line 61 to col. 6, line 22). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide the above teaching of Levine to Kato in order for the combined system to allow entry of commands by voice as taught by Levine. It is

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also well known in the art that all of the commands are executed by a processor of the

system.

Still regarding claim 1, Kato and Levine, do not mention "matching a selected one of a set of alphanumeric characters". Mann teaches Method of performing speech recognition by comparison of single spoken character (see abstract; col. 5, line 8 to col. 10, line 8). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide the above teaching of Mann to Levine and Kato in order ensure the correct spelling of the input word as taught Mann.

Still regarding claim 1, Kato, Levine, and Mann do not teach that the voice-recognition engine is further configured to interpret the audio-data as an alphanumeric character or a command using a sequencing scheme by matching the audio-data to a command and if there is no match, matching the audio-data to an alphanumeric character. Howell, in an analogous art, teaches a voice recognition algorithm that recognizes input from a voice recognizer to be a command or characters and execute the commanded function or the function with collected characters accordingly (see fig. 7b; col. 21, line 29 to col. 22 line 67). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide the above teaching of Howell to Kato, Levine, and Mann in order for the combined system to offer users options such as to verbally issue a command or entering numerical data by verbally reciting a digit character as taught by Howell.

Regarding claims 3,35,44, the combination of the teachings of Kato, Levine, Mann, and

Howell teaches that the system of claims 1, 34, 43 further comprising a transmitter to

transmit the selected alphanumeric character to a remote location (Reference Kato,

figure 2, item 14 and 1205).

Regarding claims 4, and 36, the combination of the teachings of Kato, Levine, Mann,

and Howell teaches that the system of claims 1, and 34 wherein the memory

(Reference Kato, figure 5, item 54; col. 6, lines 47-48) stores a plurality of selected

alphanumeric characters, the plurality of selected alphanumeric characters comprising

at least a portion of an electronic message, the system further comprising a transmitter

to transmit the electronic message to a remote location (Reference Kato, col. 4, lines

55-67; col. 5, lines 1-4; figure 2, items 12 and 14).

Regarding claims 5,37, and 45, the combination of the teachings of Kato, Levine, Mann,

and Howell teaches that the system of claims 4, 36, and44 wherein the electronic

message is compatible with a short-messaging-service protocol (Reference Kato, figure

2, the Electronic Mail Transmission 1023).

Regarding claims 6 and 18, the combination of the teachings of Kato, Levine, Mann,

and Howell teaches a system wherein the voice-recognition engine is configured to

interpret the audio-data as matching a selected one of a set of commands (Reference

Levine, col. 4, line 61 to col. 6, line 22) to process the electronic message (Reference Kato, col. 4, lines 55-60), the system further comprising a processor to execute the

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selected command (Reference Kato, col. 4, lines 55-60).

Regarding claims 7.32, the combination of the teachings of Kato, Levine, Mann, and

Howell teaches system comprising:

a system for storing addresses in a wireless communication device (Reference Kato,

see figure 5), the system comprising: an audio-input device to receive audio-data

(Reference Kato, Figure 5, item 40); a voice-recognition engine to receive and analyze

the audio-data, wherein the voice-recognition engine is configured to interpret single

word audio-data as matching a selected one of a set of alphanumeric characters

(Reference Kato, col. 4, lines 55-67; col. 5, lines 1-4), a processor to associate an

address-identifier with a plurality of selected alphanumeric characters (reference Levine,

col. 4, line 61 to col. 6, line 22); and a memory to store the plurality of selected

alphanumeric characters in association with the associated address-identifier wherein

the voice-recognition engine is further configured to interpret the audio-data as

matching a selected one of a set of commands to process the plurality of selected

alphanumeric characters and the associated address-identifier, the processor executing

the selected command (reference Levine, col. 4, line 61 to col. 6, line 22). Also see

Mann, abstract; col. 5, line 8 to col. 10, line 8.

Regarding claims 9 and 21, the combination of the teachings of Kato, Levine, Mann,

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and Howell teaches that the system of claim 7 wherein the plurality of selected

alphanumeric characters associated with the address-identifier represents at least part

of a destination telephone number (Reference Levine, col. 4, line 61 to col. 6, line 22).

Regarding claims 10 and 22, the combination of the teachings of Kato, Levine, Mann,

and Howell teaches that the system of claim 7 wherein the plurality of selected

alphanumeric characters associated with the address-identifier represents at least part

of an electronic address (Reference Levine, col. 4, line 61 to col. 6, line 22).

Regarding claims 12 and 24, the combination of the teachings of Kato, Levine, Mann,

and Howell teaches that the system of claim 7 wherein the voice-recognition engine is

further configured to interpret the audio-data as the address-identifier (Reference

Levine, col. 4, line 61 to col. 6, line 22).

Regarding claims 13,26,29,32,40,47, the claims have the same limitations as that of

claim 1 or part of claim 1, and therefore is interpreted and rejected for the same reason

set forth in the rejection of claim 1.

Regarding claim 15, the combination of the teachings of Kato, Levine, Mann, and

Howell teaches that the method of claim 13, further comprising transmitting the selected

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alphanumeric character to a remote location (Reference Kato, figure 2, item 14 and

1205).

Regarding claim 16, the combination of the teachings of Kato, Levine, Mann, and

Howell teaches storing a plurality of selected alphanumeric characters (reference Kato.

figure 5, item 54; col. 6, lines 47-48), the plurality of selected alphanumeric characters

comprising at least a portion of an electronic message, and transmitting the electronic

message to a remote location (reference Kato, col. 4, lines 55-67; col. 5, lines 1-4;

figure 2, items 12 and 14).

Regarding claim 17, the combination of the teachings of Kato, Levine, Mann, and

Howell teaches that the method of claim 16 wherein the message is compatible with a

short-messaging-service protocol (reference Kato, figure 2, the Electronic Mail

Transmission 1023).

Regarding claims 19,34,43, the claims include the limitations as that of claims 1, 7, and

13, therefore is interpreted and rejected for the same reason set forth in the rejections of

claims 1, 7, and 13.

Regarding claims 11 and 23, the combination of the teachings of Kato, Levine and

Mann teaches the plurality of selected alphanumeric characters associated with the

address-identifier represents at least part of a street address (see Levine, col. 5, lines 4-10; col. 5, lines 60-67).

Regarding claim 49, the claim includes the same limitations as that of claim 1, and therefore are interpreted and rejected for the same reason set forth in the rejection of claim 1.

4. Claims 25,27,28,30,31,33,39,41,42,46,48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kato (US 6,263,202) in view of Levine (US 6,972,082), Mann (US 6,687,673) and further in view of Howell et al. (US 6,215,992) andTsai (US 5,838,458).

Regarding claim 25, the combination of Kato, Levine and Mann, as mentioned above, teaches the limitations of claim 1, but does not disclose that the single word or multiple word audio-data matches a selected one of the group of special characters consisting of !, @, #, \$, or %. This limitation is taught by Tsai in an analogous art (see fig. 77; col. 50, line 50 to col. 51, line 3). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide the above teaching of Tsai to Kato, Levine and Mann in order void triple-digit encoding in inputting alphanumeric characters regarding entering an e-mail address as taught by Tsai.

Regarding claims 27,28,30,31,33,39,41,42,46,48, the claims includes the same

limitations as that of claim 25, and therefore are interpreted and rejected for the same

reason set forth in the rejection of claim 25.

Regarding claim 42, the combination of Kato, Levine, Mann, Howell and Tsai teaches a

keypad for manual data entry, wherein each key of the keypad corresponds to a

plurality of alphanumeric characters (see fig. 77 of Tsai. Also see Mann, abstract; col. 5,

line 8 to col. 10, line 8).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to MINH D. DAO whose telephone number is (571)272-

7851. The examiner can normally be reached on 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, MATTHEW ANDERSON can be reached on 571-272-4177. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MINH DAO /MINH D DAO/ Examiner, Art Unit 2618